DAIKIN

AIR CONDITIONING

Daikin air conditioners for shops, restaurants and offices

4-WAY BLOW CEILING MOUNTED CASSETTE (950x950mm)

NEW

www.daikineurope.com

FCQ-D

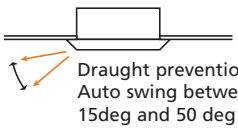
OPTIMISED DESIGN R-410A

The ceiling mounted 4-way blow cassette is specially designed for use in false ceilings. The greater part of the unit integrates perfectly with the ceiling. Only the slim decoration panel remains visible. As their name suggests, these units can discharge air in any of 4 directions.
These cassettes are the most energy efficient cassettes Daikin has ever developed moreover they are equipped with a special draught prevention technology

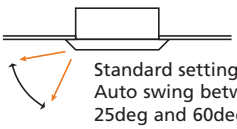
COMFORT

- You have the choice of 3 **auto-swing** positions for maximum comfort: standard, draught prevention or ceiling soiling prevention.

Auto swing:
Vertical auto swing automatically moves the flaps up and down to distribute air effectively throughout the whole room.

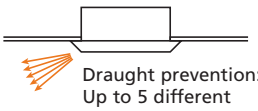


Draught prevention:
Auto swing between
15deg and 50 deg

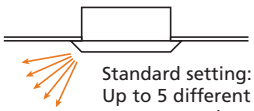


Standard setting:
Auto swing between
25deg and 60deg

5 different air flow patterns:
Any one of five different air flow patterns can be freely selected between 0deg and 65deg. This air flow pattern will then be maintained during the operation of the air conditioner.

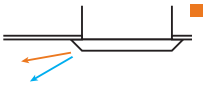


Draught prevention:
Up to 5 different
patterns can be set
between 15deg and
50 deg



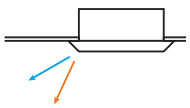
Standard setting:
Up to 5 different
patterns can be set
between 25deg and
60deg

Draught prevention (heating mode):
Prevents draughts by automatically changing to horizontal air flow discharge when the heater is started up and thethermostat is switched off.



Draught prevention:
Automatically
set to 10deg

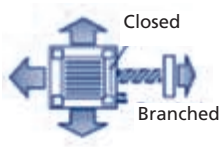
Auto blow air flow control:
The last air flow pattern is memorised and automatically reset the next time the unit is turned ON.



- Air flow distribution for **ceiling heights** up to 4.2m without loss of capacity.
- You have the choice out of 2 **fan speeds** to select: high or low. A high fan speed provides maximum reach while a low fan speed minimizes drafts.
- These indoor units are very **quiet in operation**. The sound levels are as low as 28dB (A), comparable to rustling leaves.
- Daikin's special **dry programme** reduces humidity in the room without variations in room temperature.
- The indoor unit contains an air **filter** which removes microscopic particles and dust.

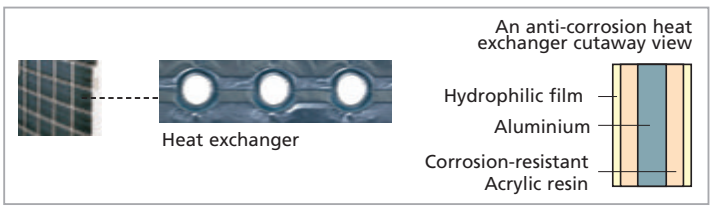
FLEXIBLE INSTALLATION AND EASY TO USE

- Since the unit has a **low height** it fits flush into false ceilings (minimum height of 256mm).
- When the ceiling void is too small, a **panel spacer** can be used to cover the space between the ceiling and decoration panel.
- The **air** is discharged in 4 directions.
- It is possible to **shut off one or 2 flaps** enabling the unit to be installed in the middle of the room, in a corner or in a small room.



An optional **branch duct** can be connected to the air conditioning. In this way, it is possible to provide additional air flow for crowded spaces.

- The **outdoor unit** can be installed on a roof or terrace or placed against an outside wall.
- Special **anti-corrosion treatment** of the outdoor unit's heat exchanger fin, gives greater resistance against acid rain and salt corrosion. Additional resistance is provided by a rust proof steel sheet on the underside of the unit.



Infrared remote control (Optional)

Wired remote control (Optional)

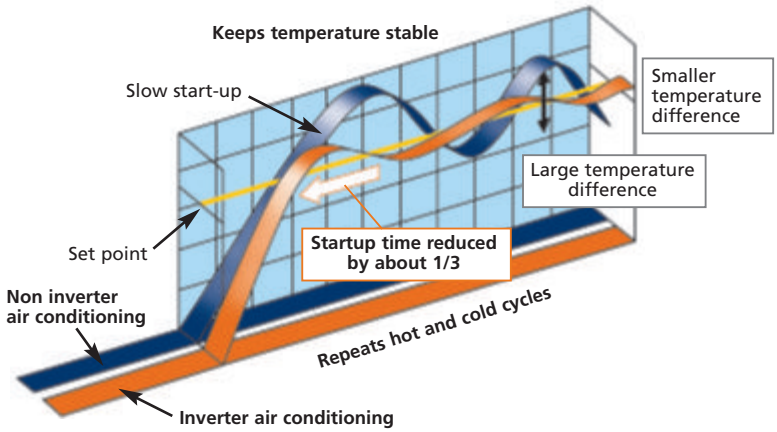
- Daikin **remote controls** give you easy control at your fingertips.
- The **wired remote control** provides you with a schedule timer, enabling to program the air conditioning daily or weekly.

ENERGY EFFICIENT

- Energy label: up to class A

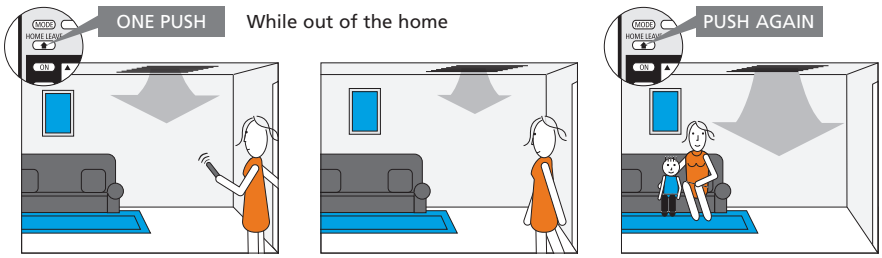
- The internal layout of the indoor unit is specially designed to improve its operating efficiency, enabling the 4-way blow ceiling mounted cassette to achieve **higher energy efficiency** levels than contemporary cassette models.

- **Inverter technology**
  Improved energy efficiency:
  The use of integrated inverter control ensures maximum **energy efficiency** by supplying only the required heating or cooling load where a standard non inverter unit would supply maximum load in an on/off regime.



  Improved comfort:
  The rapid start up time provided by the inverter increases **comfort** by reducing the lead time in obtaining the required indoor temperature. As soon as the required temperature is reached, the inverter unit continuously scans the room for small changes and adjusts the room temperature in seconds, thereby increasing comfort once again.

- The **'home leave' operation** button prevents large temperature differences by continuously operating at a minimum (heating mode) or maximum (cooling mode) preset level while you're out or sleeping. It also allows the indoor temperature to return quickly to your favourite comfort level.



When you go out push the "Home leave operation" button, and the air conditioner will adjust capacity to reach the preset temperature for "Home leave operation".

When you return, you will be welcomed by a comfortable air-conditioned room.

Push the "Home leave operation" button again, and the air conditioner will adjust capacity to the set temperature for normal operation.

APPLICATION OPTIONS

- This model can be used for **cooling only or heating.**

- It is possible to use the indoor unit in **pair** (connecting one indoor to one outdoor).

Capacity and power input

HEAT PUMP - INVERTER CONTROLLED (air cooled)				FCQ71DV3B	FCQ100DV3B	FCQ125DV3B	FCQ140DV3B
				RZQ71B8V3B	RZQ100B8V3/B7W1B	RZQ125B8V3/B7W1B	RZQ140B7W1B
Cooling capacity		min~nom~max	kW	3.2~7.1~8.0	5.0~10.0~11.2	5.7~12.5~14.0	6.2~14.0~15.4
Heating capacity		min~nom~max	kW	3.5~8.0~9.0	5.1~11.2~12.8	6.0~14.0~16.2	6.2~16.0~18.0
Nominal input	cooling	nom	kW	1.98	2.44	3.54	4.56
	heating	nom	kW	1.97	2.56	3.59	4.52
EER				3.59	4.10	3.53	-
COP				4.06	4.375	3.90	-
Energy label	cooling			A	A	A	-
	heating			A	A	A	-
Annual energy consumption	cooling		kWh	990	1,220	1,770	-

Notes:

1) Energy label : scale from A (most efficient) to G (less efficient).

2) Annual energy consumption: based on average use of 500 running hours per year at full load (= nominal conditions)

Specifications indoor units

HEAT PUMP				FCQ71DV3B	FCQ100DV3B	FCQ125DV3B	FCQ140DV3B
Dimensions	HxWxD	unit	mm	246x840x840	288x840x840		
		decoration panel	mm	45x950x950			
Weight		unit	kg	24	28		
		decoration panel	kg	5.5			
Colour		decoration panel		White			
Air flow rate		H/L	m^3/min	19/14	30/21	30/24	30/25
Fan speed				2 steps			
Sound pressure level		H/L	dB(A)	34/28	43/33	43/36	43/38
Sound power level		H/L	dB(A)	50/44	58/48	58/51	58/53
Piping connections		liquid	mm	ø9.5 (flare)			
		gas	mm	ø15.9 (flare)			
		drain	ID mm	ø25			
			OD mm	ø32			
Heat insulation				Both liquid and gas pipes			

Indoor units:

FCQ71,100,125,140D

Specifications outdoor units

HEAT PUMP - INVERTER CONTROLLED				RZQ71B8V3B	RZQ100B8V3/B7W1B	RZQ125B8V3/B7W1B	RZQ140B7W1B
Dimensions		HxWxD	mm	770x900x320	1,345x900x320		
Weight			kg	68	106		
Casing colour				Ivory white			
Sound pressure level	cooling	H	dB(A)	47(43)	49(45)	50(45)	50(45)
(night quiet mode)	heating	H	dB(A)	49	51	52	52
Sound power level	cooling	H	dB(A)	63	65	66	66
Compressor				Hermetically sealed swing	Hermetically sealed scroll		
Refrigerant type				R-410A			
Refrigerant charge			kg/m	2.8	4.3		
Maximum piping length			m	50 (equivalent length 70)	75 (equivalent length 95)		
Maximum level difference			m	5 (3m by field setting)			
Operation range	cooling	from ~ to	°CDB	-15~50			
	heating	from ~ to	°CWB	-20~15.5			

Accessories: control systems

INDOOR UNITS	FCQ71D	FCQ100D	FCQ125D	FCQ140D
Wired remote control	BRC1D527			
Infrared remote control	BRC7E51W			
Centralised remote control	DCS302C51			
Unified ON/OFF control	DCS301B51			
Schedule timer	DST301B51			
Adapter for external ON/OFF and monitoring *1	KRP1B59			
Adapter for external ON/OFF and monitoring *1	KRP4A53			
Installation box for adapter PCB	KRP1D98			

*1 Installation box for adapter PCB (KRP1D98) is necessary.

Accessories

INDOOR UNITS			FCQ71D	FCQ100D	FCQ125D	FCQ140D
Decoration panel			BYCP125DJW1			
Panel spacer			KDBP55H160WA			
High-efficiency filter 65% (colorimetric method)			KAFP556D80	KAFP556D160		
High-efficiency filter 90% (colorimetric method)			KAFP557D80	KAFP557D160		
Replacement high-efficiency filter 65% (colorimetric method)			KAFP552H80	KAFP552H160		
Replacement high-efficiency filter 90% (colorimetric method)			KAFP553H80	KAFP553H160		
Filter chamber			KDDFP55D160			
Long-life filter			KAFJ551C160			
Ultra long-life filter			KAFP55D160			
Replacement long-life filter			KAFJ55K160H			
Fresh air intake	Chamber type	without T-shape & fan	KDDP55D160			
		with T-shape, without fan	KDDP55D160K			
	Direct installation type		KDDJ55X160			
Insulation kit for high humidity			KDT-55D80	KDT-55D160		
Branch duct chamber			KDP55D80	KDP55D160		
Chamber connection kit			KKSJ55K160			

Accessories

OUTDOOR UNITS		RZQ71B	RZQ100B	RZQ125B	RZQ140B
Central drain plug		KKPJ5F180			
Refrigerant branch piping	for twin	KHRQ22M20TA7			
	for triple	-	KHRQ127H7		
	for double twin	-	-	KHRQ22M20TA7 (x3)	
Demand adapter kit	remote control of sound reduction and power input	KRP58M51			

Notes:

1) V1 = 1~,230V,50Hz; VM = 1~, 220-240V/220-230V, 50Hz/60Hz; V3 = 1~, 230V, 50Hz

2) Nominal cooling capacities are based on: indoor temperature 27°CDB/19°CWB • outdoor temperature 35°CDB • refrigerant piping length 7.5m • level difference 0m.

3) Nominal heating capacities are based on: indoor temperature 20°CDB • outdoor temperature 7°CDB/6°CWB • refrigerant piping length 7.5m • level difference 0m.

4) Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

5) Units should be selected on nominal capacity. Max. capacity is limited to peak periods.

6) The sound pressure level is measured at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment.

7) The sound power level is an absolute value indicating the "power" which a sound source generates.

Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of environmental friendly products. This challenge demands the eco design and development of a wide range of products and an energy management system; which involves energy conservation and reduction of waste.

Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard.
ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.

Daikin units comply with the European regulations that guarantee the safety of the product.

Daikin Europe N.V. is participating in the EUROVENT Certification Programme. Products are as listed in the EUROVENT Directory of Certified Products.

Specifications are subject to change without prior notice.

Daikin products are distributed by:

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